

Jim Rock
Physics/Astronomy Teacher
Wayzata High School





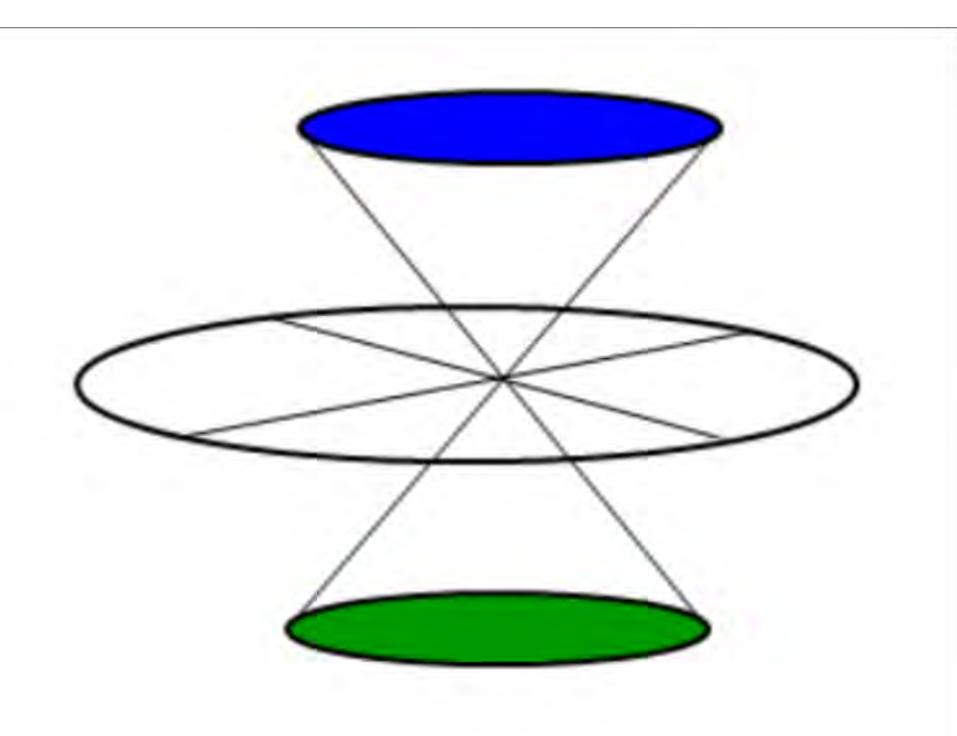
Joel Halvorson Minnesota Planetarium Society

Mitakuyepi Relatives



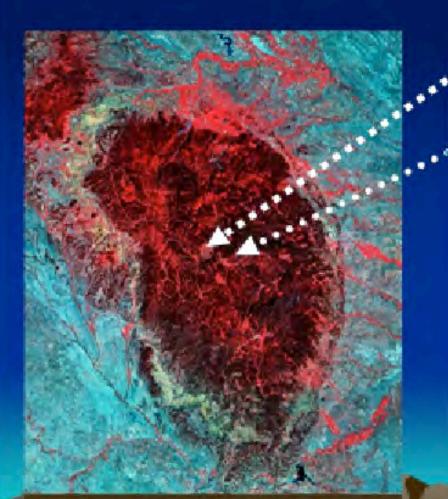
We are all related through the Spirit of life



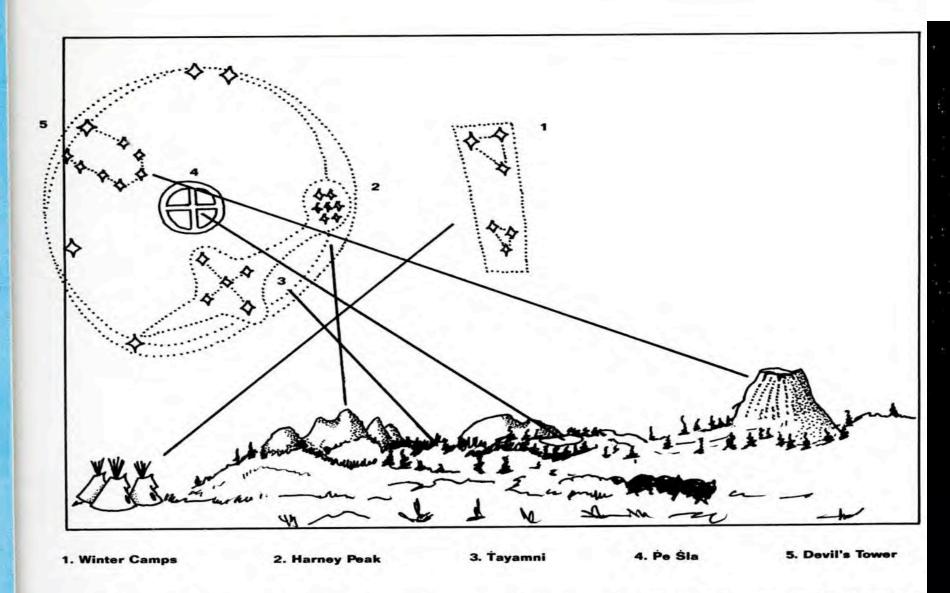




He Sapa: The Heart of Everything That is



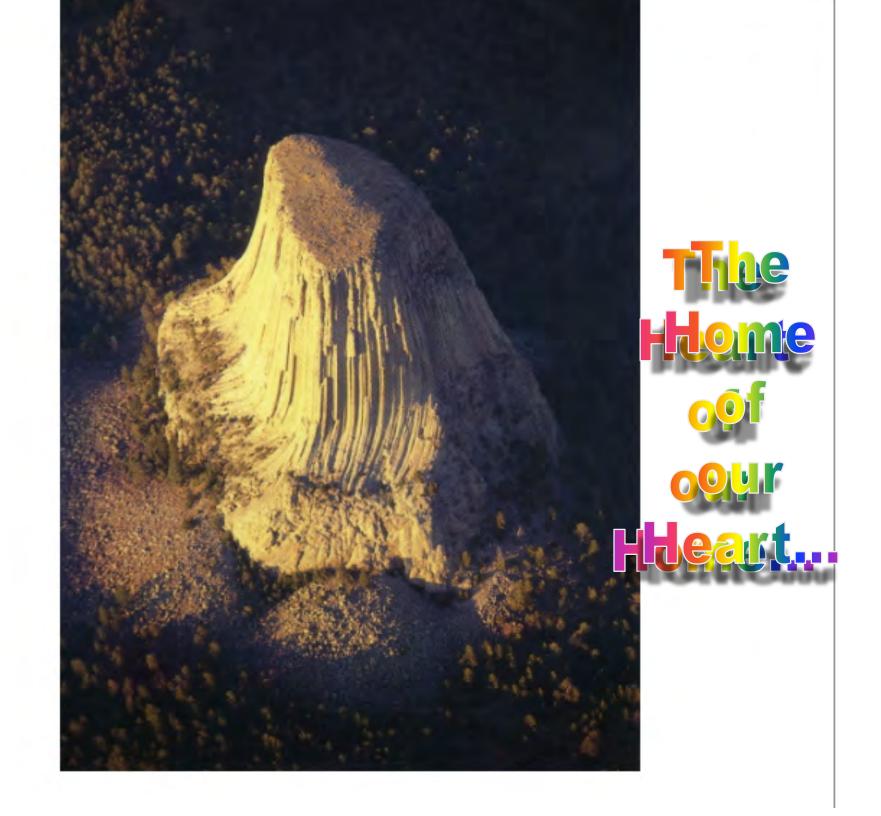
- Pesla can be seen as a bald area
- Tayamni can been seen just
 below Pesla
- He Sapa is called the Black Hills because a grove or a forest stand is called black
- He Sapa sits on a red rim and this rim is called a red race track
- He Sapa is heart shaped



Lakota constellations on the ecliptic correlated by sacred stories to distinctive land forms in the Black Hills:

- 1) Cansasa Ipusye--the winter camps;
- 2) Wicincala Śakowin--Harney Peak;
- 3) Tayamni (the group)--An Animal
- 4) Center of Ki Iŋyaŋka Ocaŋku--Pe Śla (a bare hill in the Black Hills);
- 5) Mato Tipila--Devil's Tower.



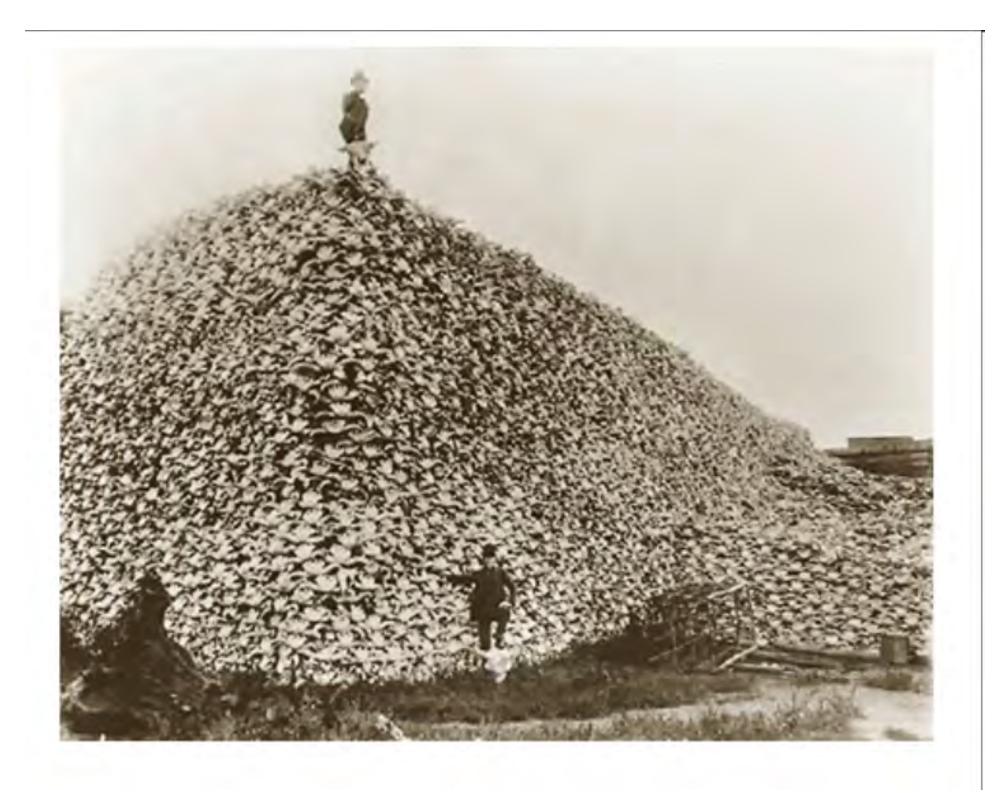




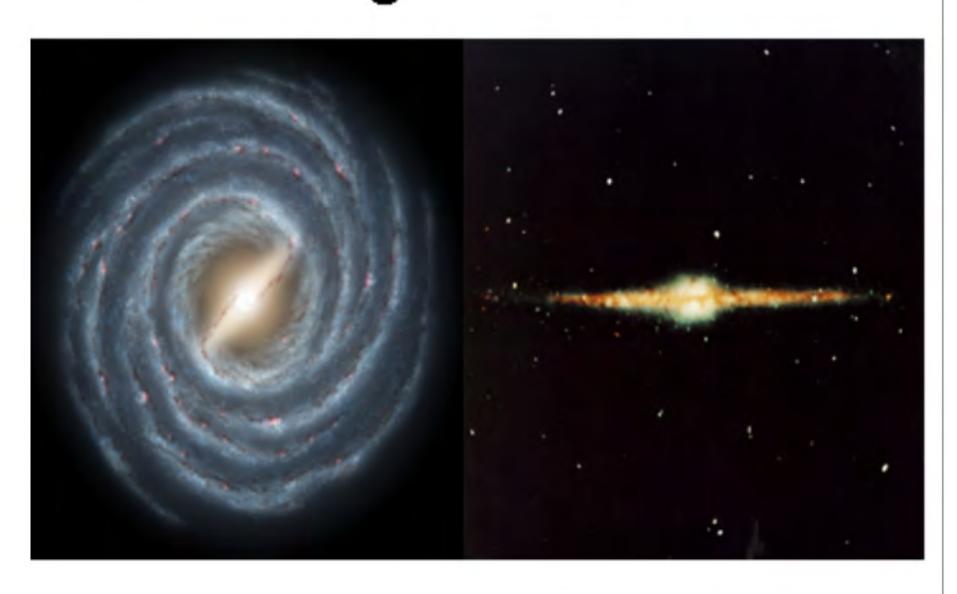


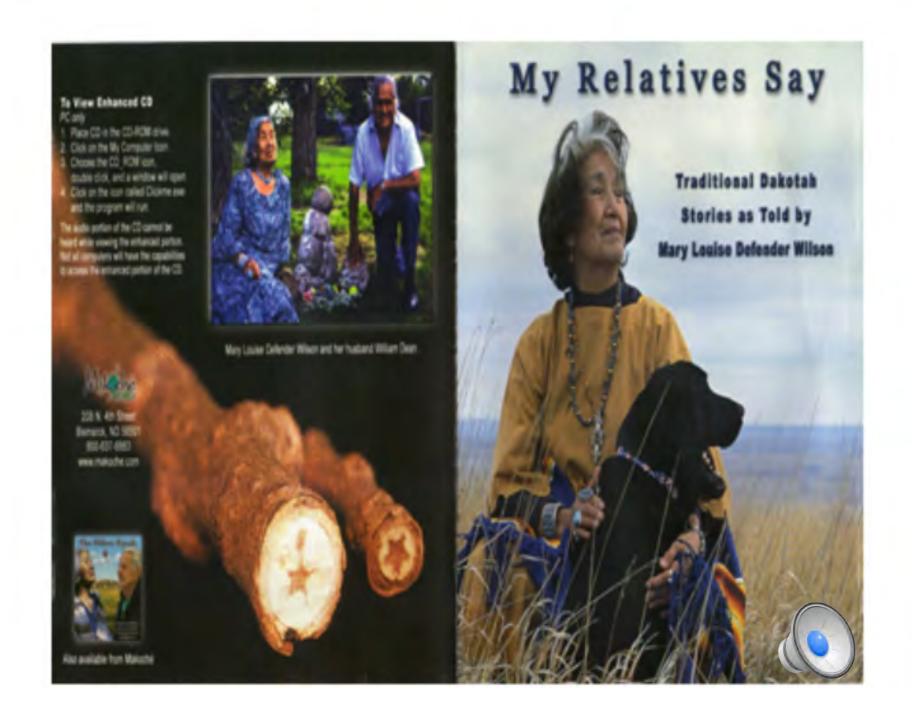




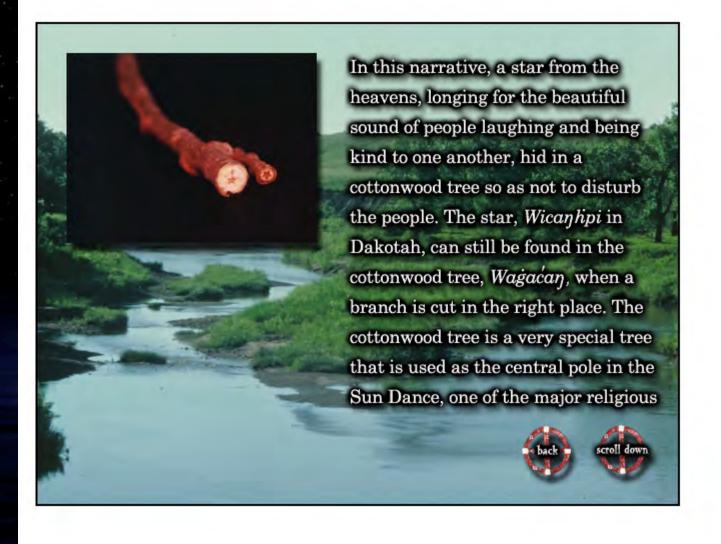


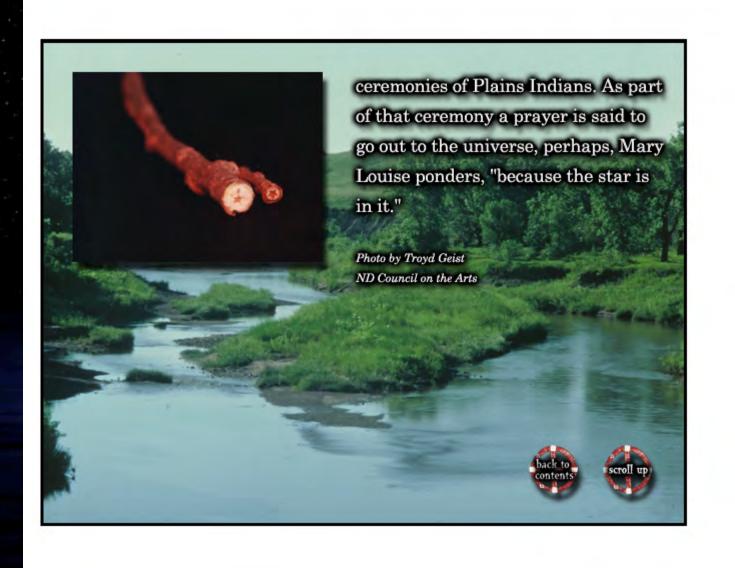
Wanagi Tachanku





The Star in the Cottonwood Tree Cottonwood trees along the Cannonball River in southwestern North Dakota Photo by Harold Umber, ND Game and Fish Dept.





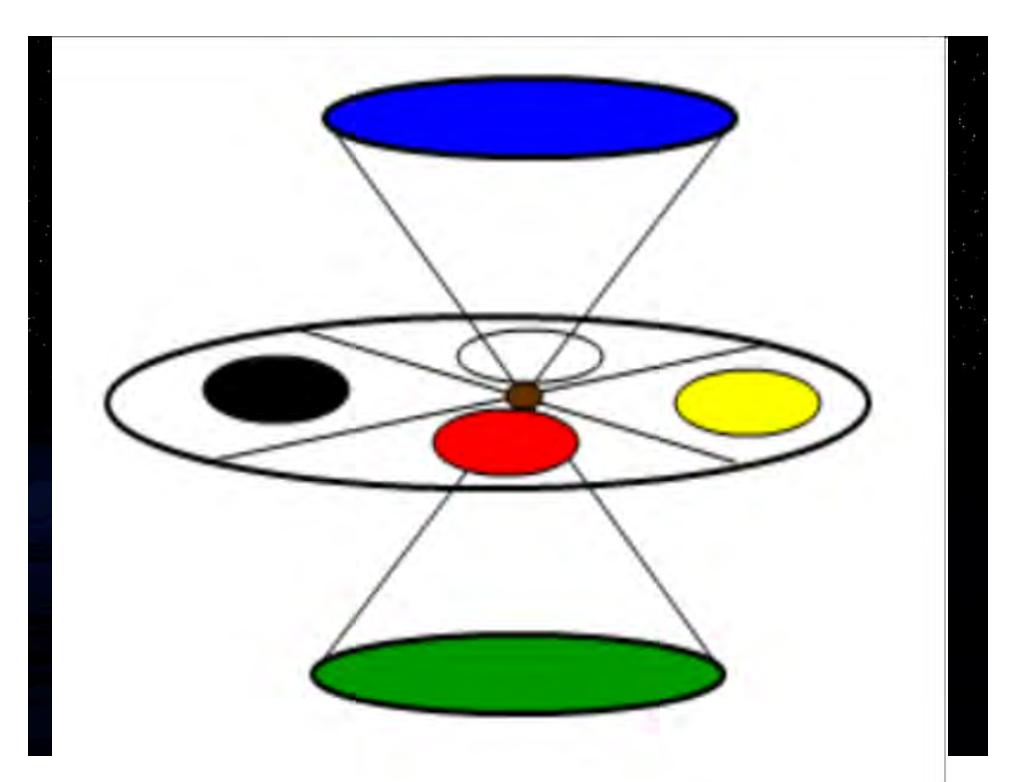


Figure 1 presents some of the Lakota constellations of spring.

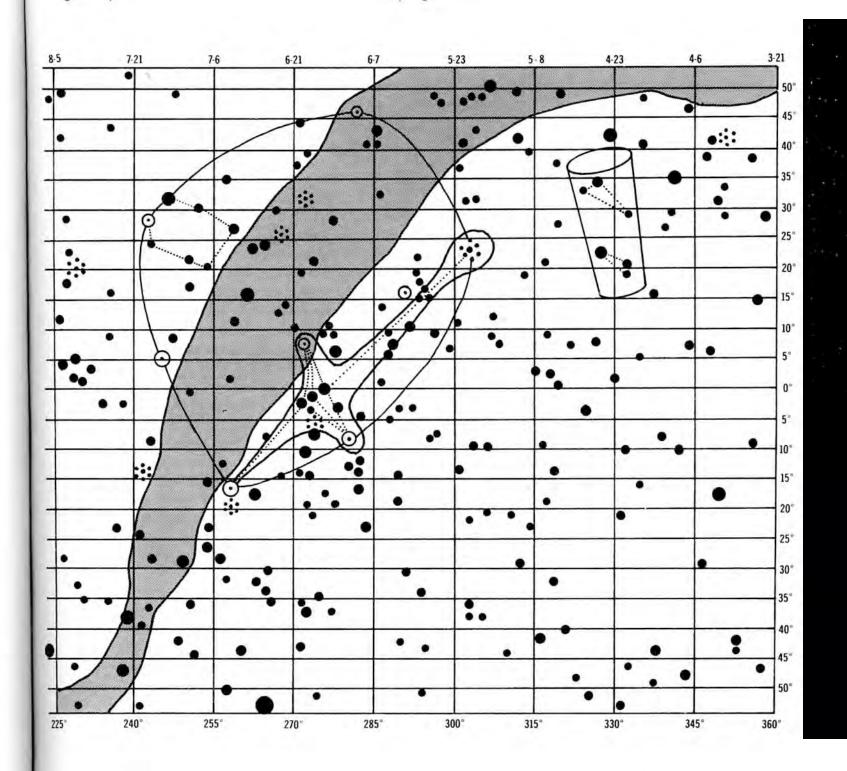
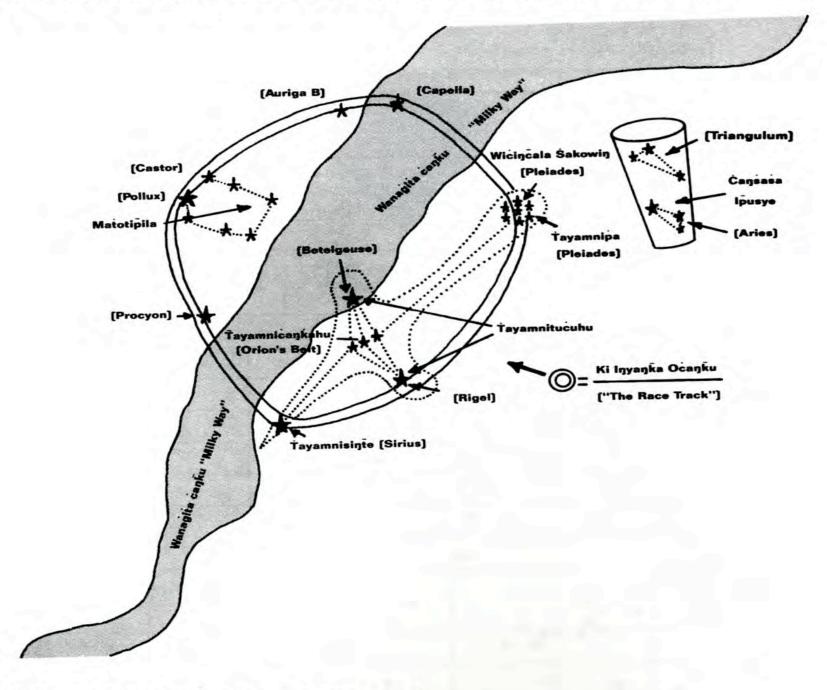
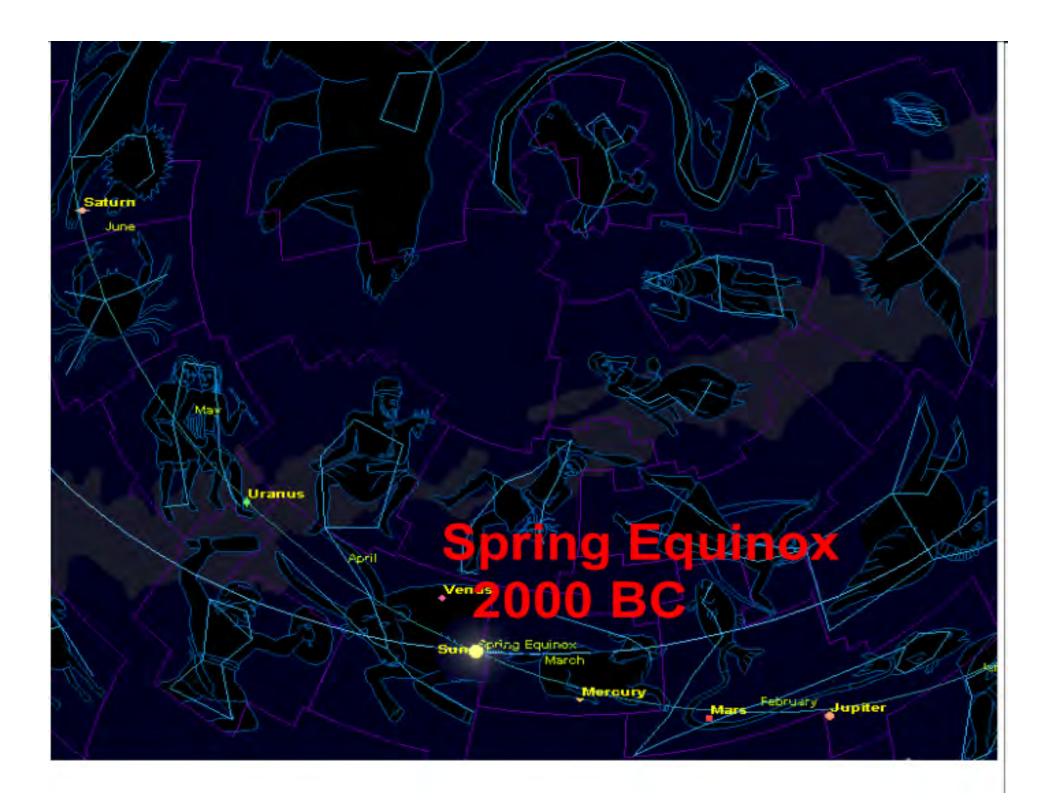


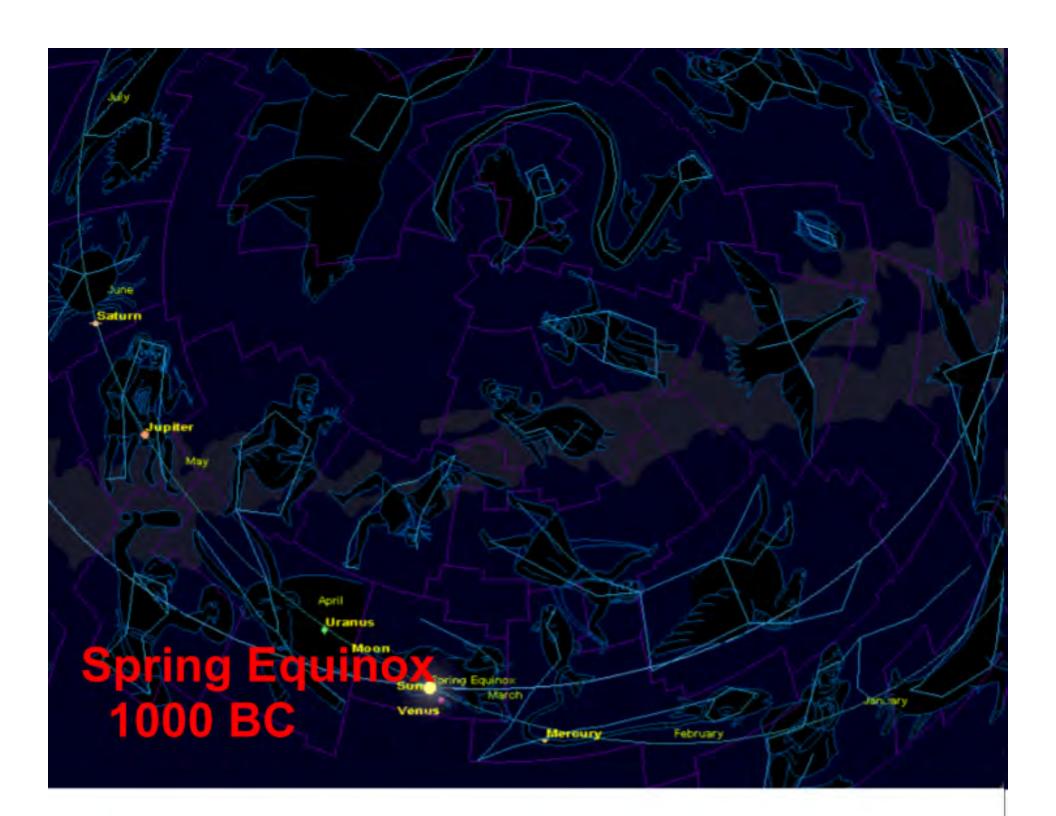
Figure 2 identifies the same constellations; as a reference point the Greek nomenclature is provided.

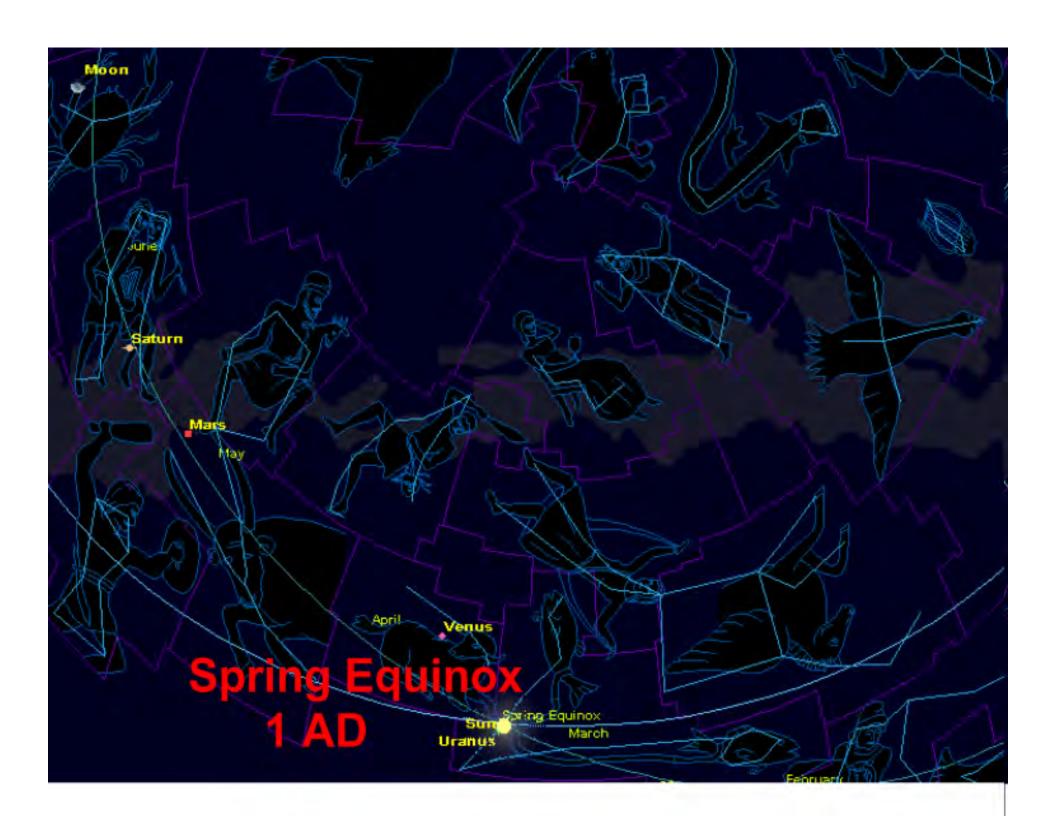


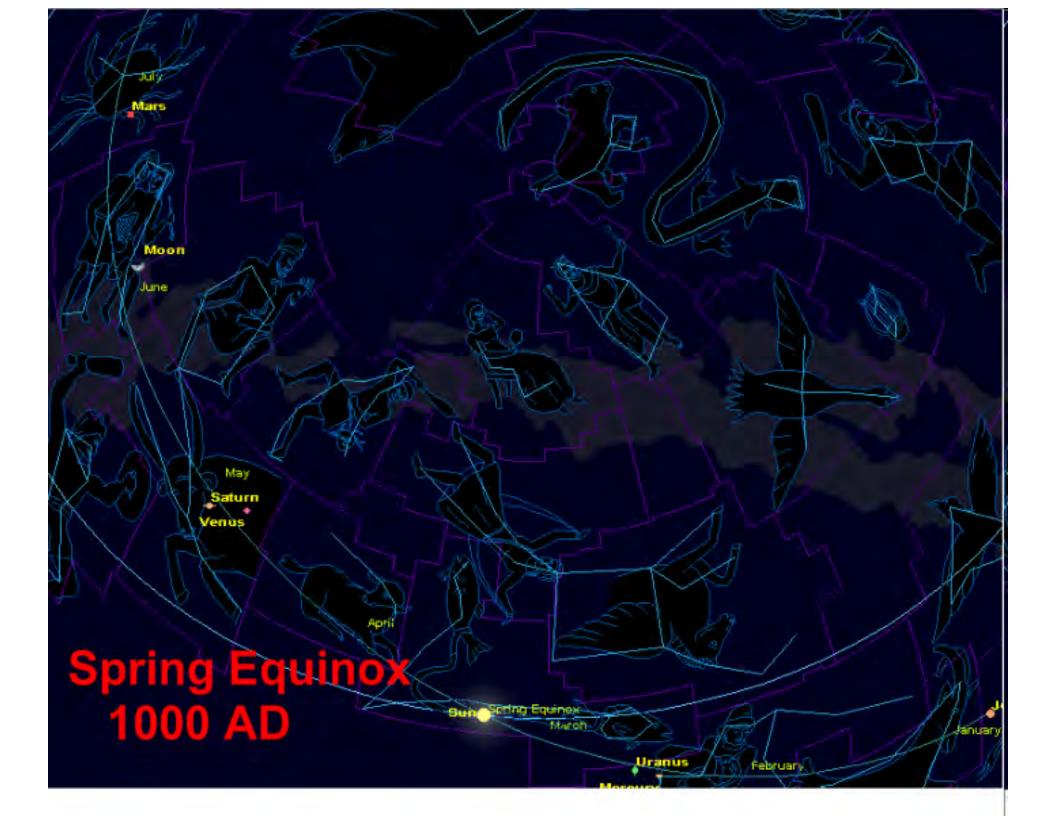
Some Lakota constellations on the ecliptic (from west to east):

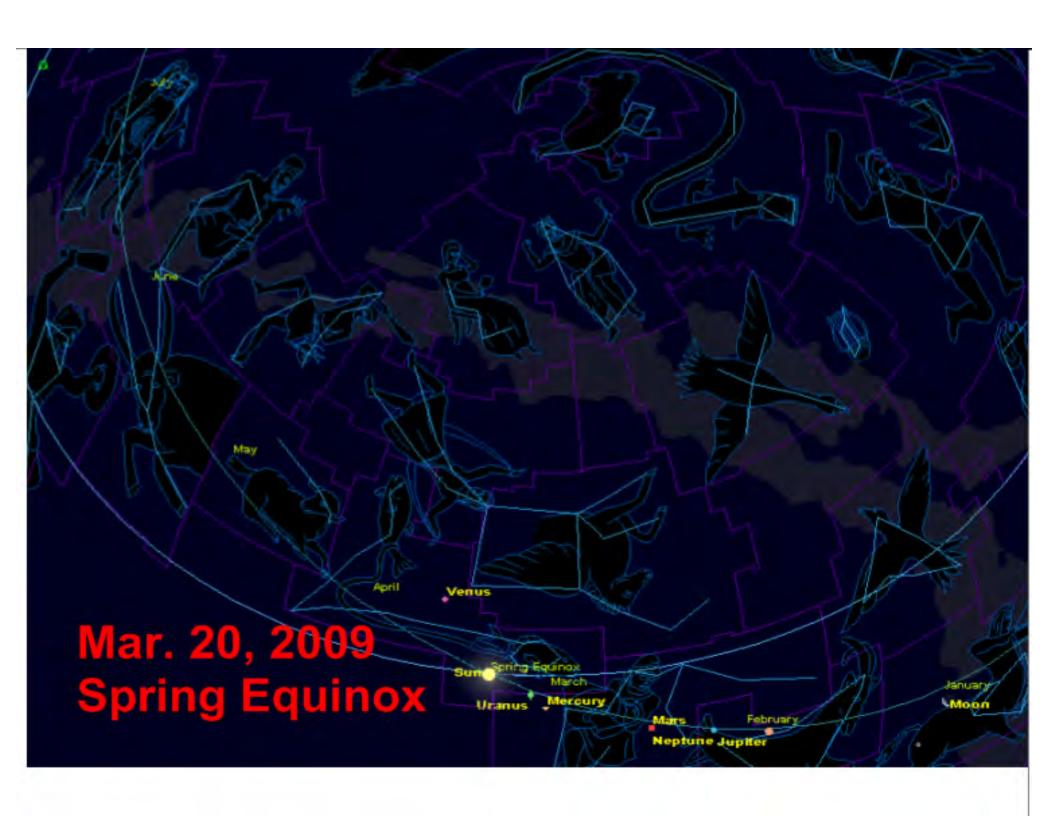
1) Čansasa Ipusye - Dried Willow;

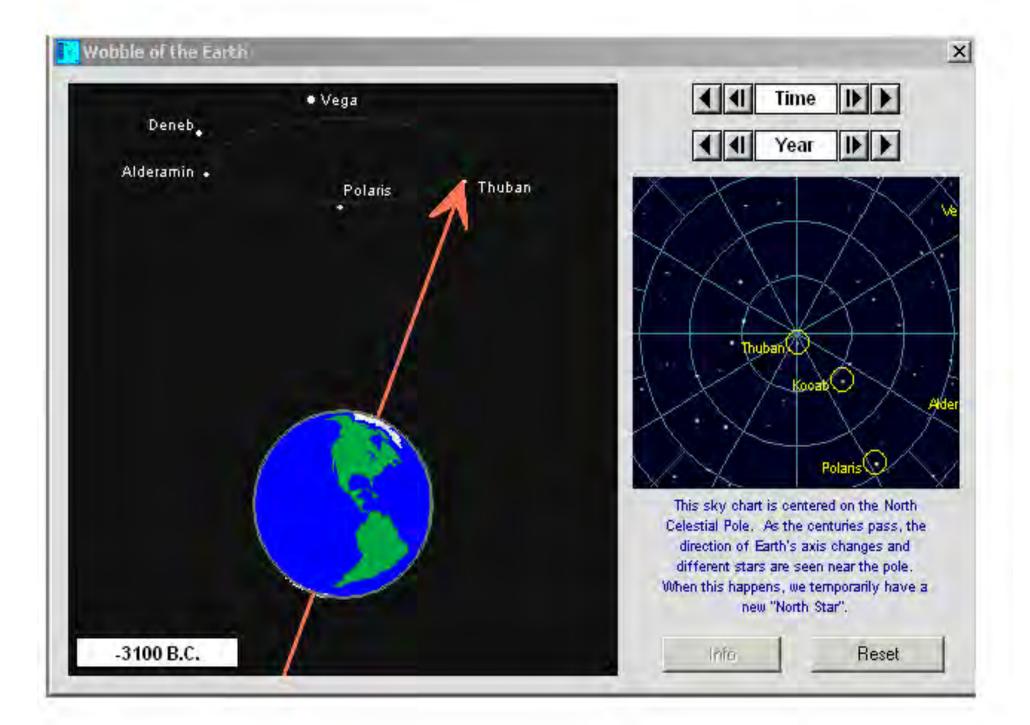


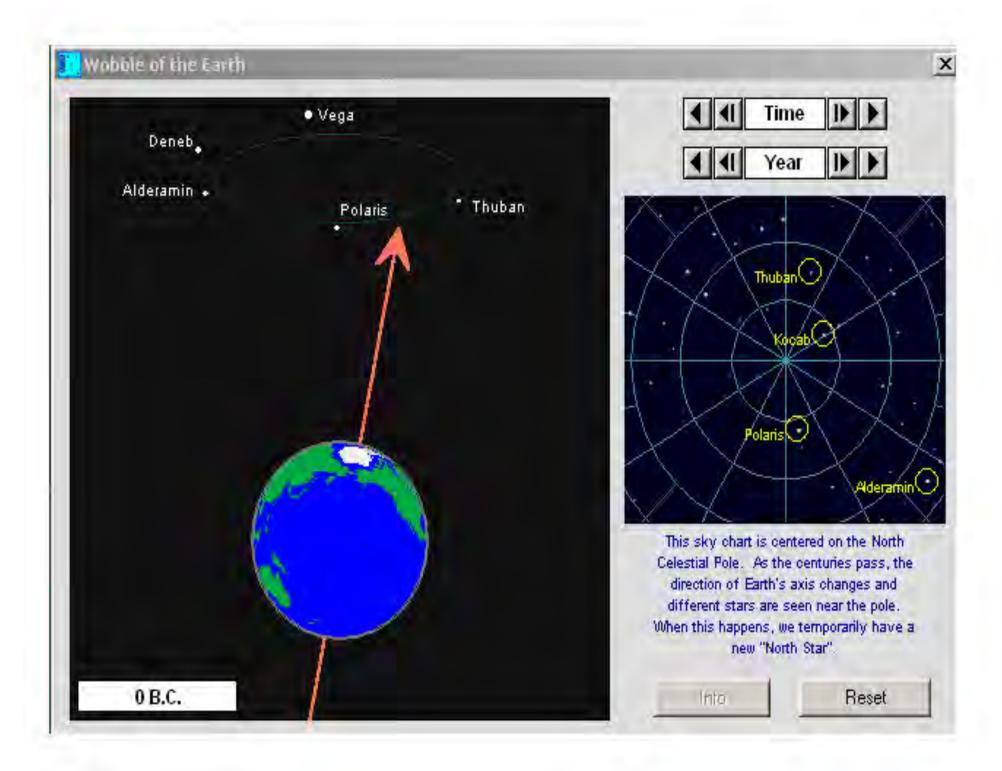


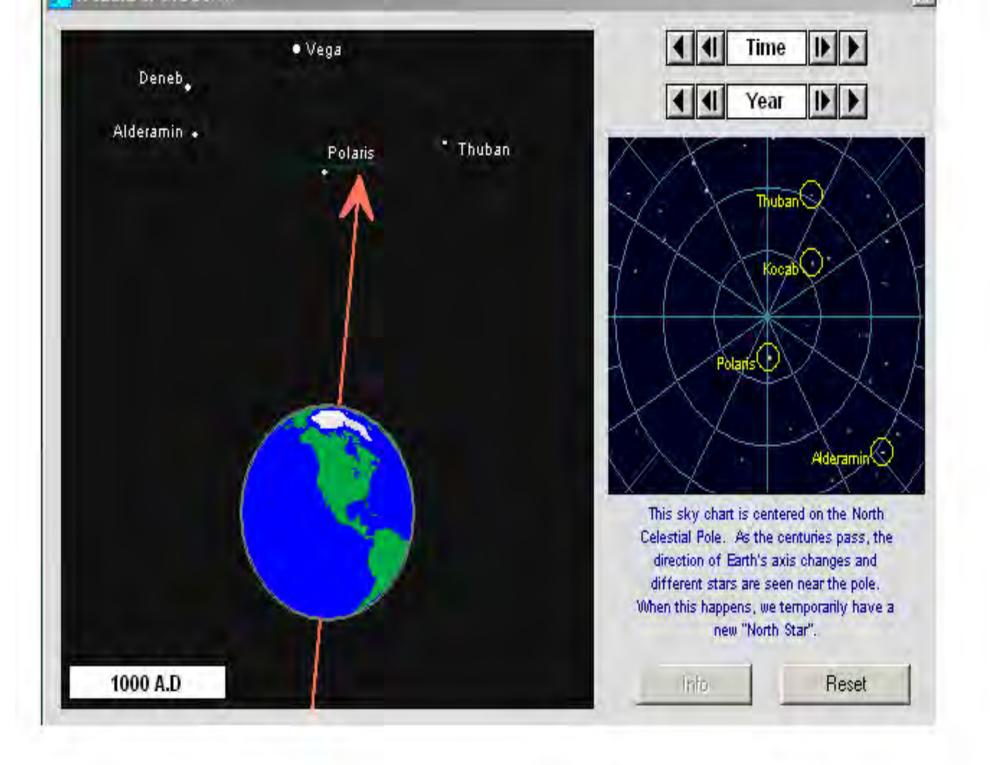


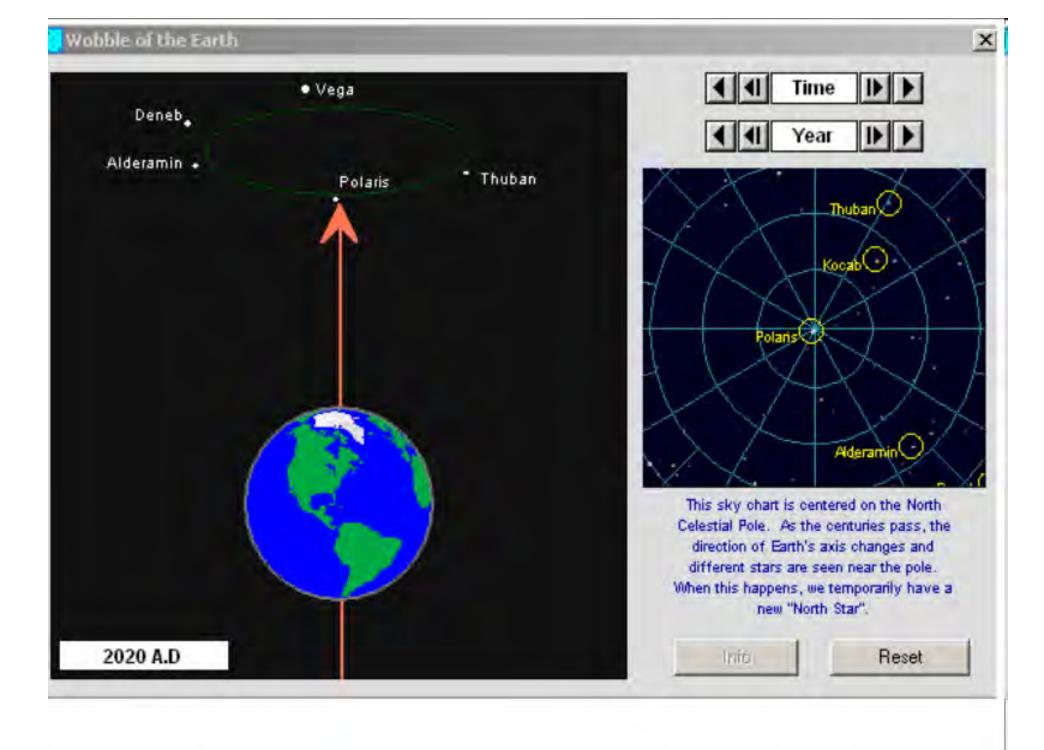


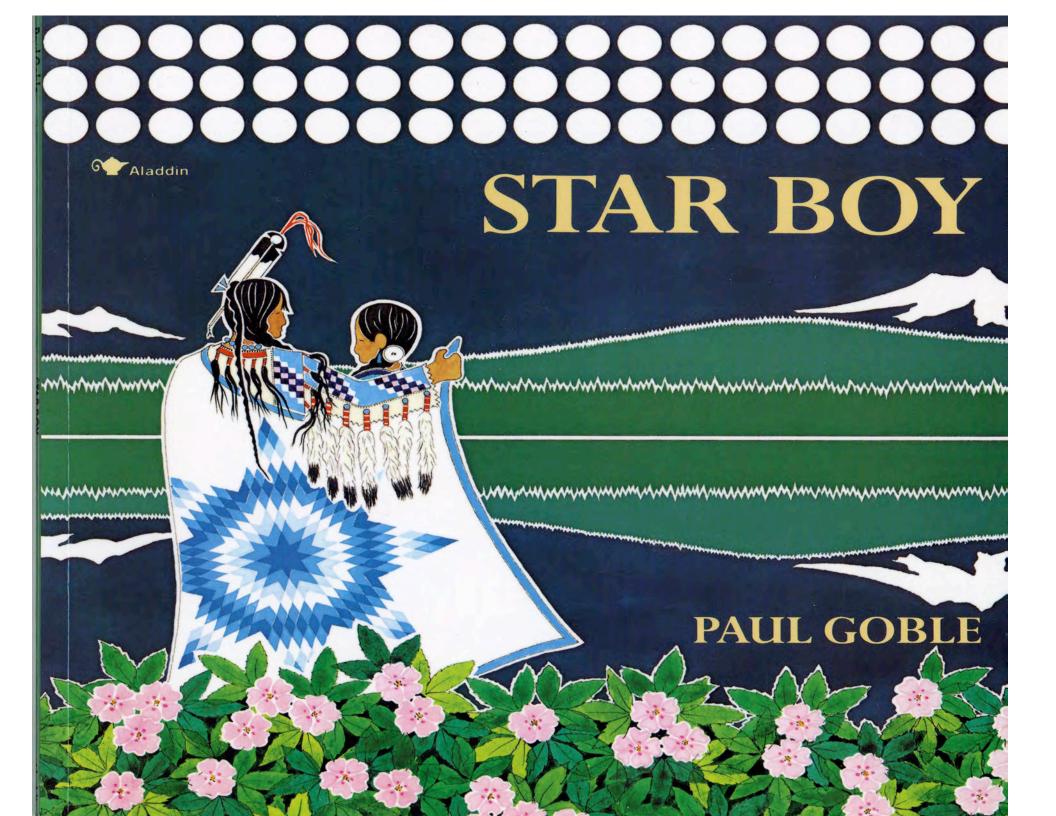










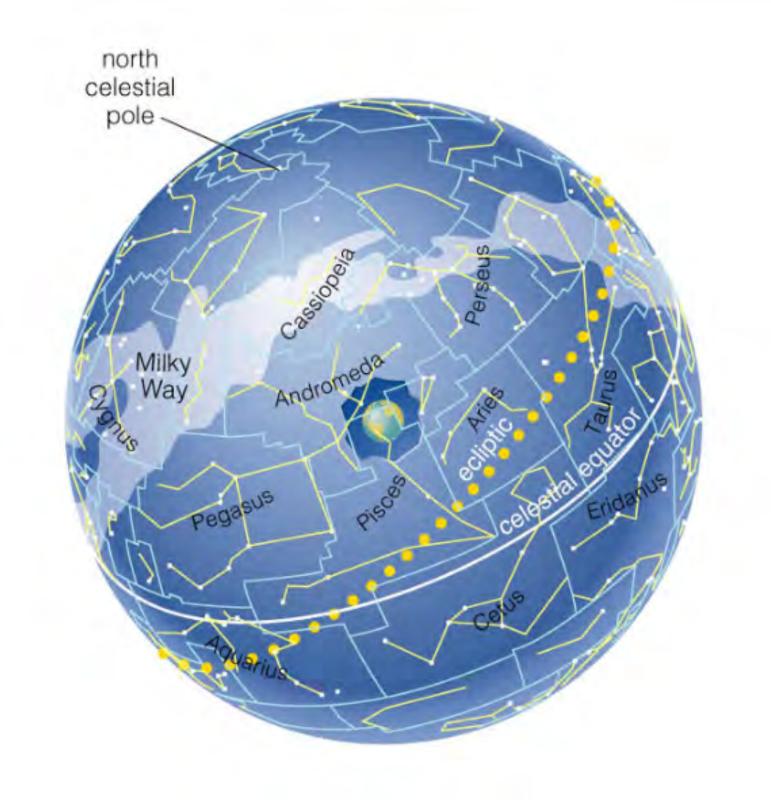


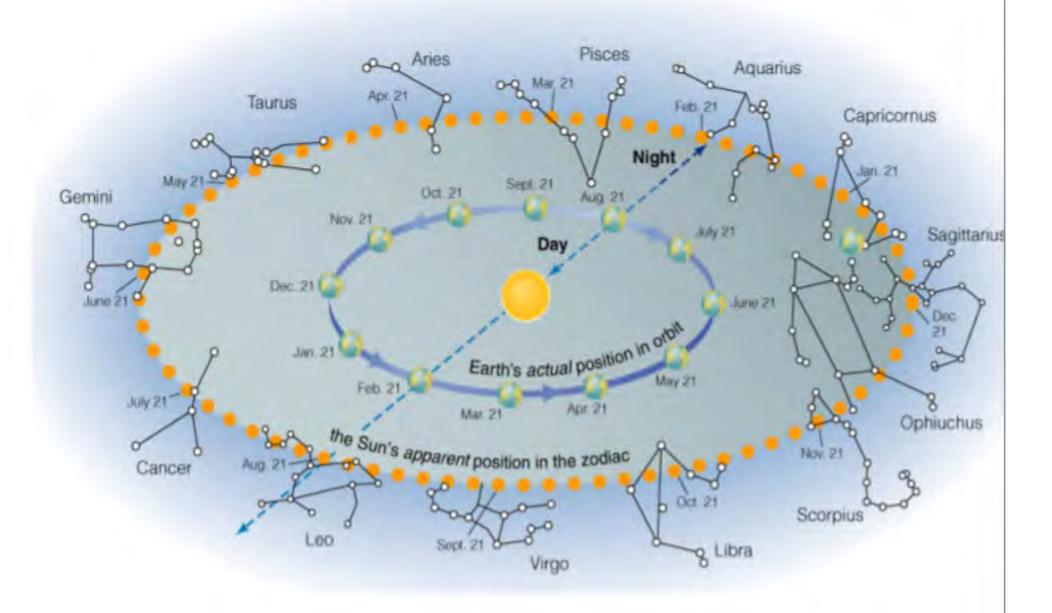
WIGWAM EVENINGS

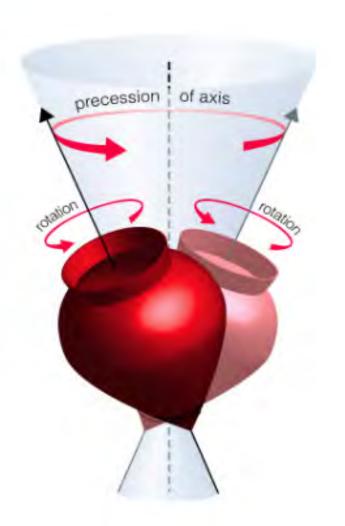
Sioux Folk Tales Retold

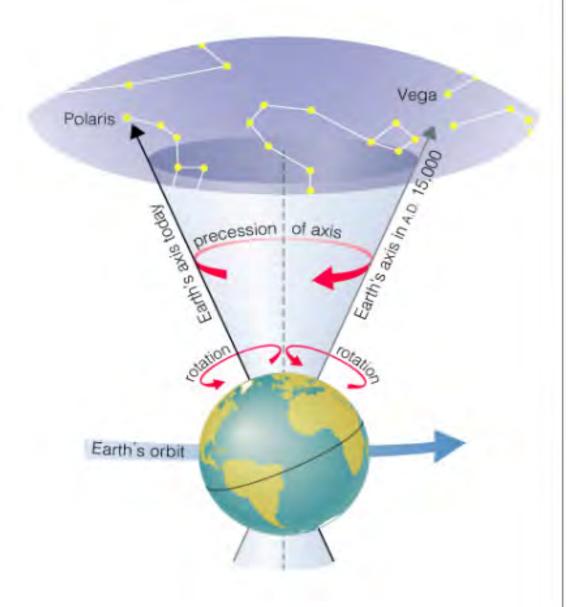
By Charles A. Eastman (Ohiyesa) and Elaine Goodale Eastman Introduction by Michael Dorris and Louise Erdrich











a few feet in diameter, floating a If the earth were only few feet above a field somewhere, people would come from everywhere to people would come from everywhere to all it. People would walk around it. Marveling at its big pools of water, its little pools and the water flowing between the pools. People would and the holes in it and they marvel at the bumps on it, and the holes in it and they would be a surrounding it and they marvel at the bumps on it, and the noises in it, and they water suspended in the gas. The neonle would marvel at Would marvel at the very thin layer or gas surrounding it and the water suspended in the gas. The people would marvel at the surface of the half and at the water suspended in the gas. The people would marvel at the creatures walking around the surface of the ball, and at declars it. the Creatures walking droung the surface of the ball, and droung the only one and they would declare it the creatures in the water. The People would declare it was the only one, and they would protect the half would protect.

The half would protect the half would protect. precious because it was the only one, and they would protect

are a test would not be hurt. The ball would protect

and neonly would be the greatest it would not be num. The ball would be ine healed to gain knowledge would come to Breatest wonder known, and people would come to behold it, to be healed, to gain knowledge, to know it could be people would be people beauty and to wonder how it could be. People Would love it, and defend it with their lives, because they would somehow know that their lives, their own roundness, could be nothing without it. If the Earth were only a few feet in